

# AlphaGuard™ MT Top Coat

High Performance, One-Part,  
Moisture Triggered, Polyurethane Top Coat

## FEATURES

Moisture Triggered Cure

High Solids Content

Single Component

Low Odor

Low VOC

Versatile

Highly Reflective (White)

## BENEFITS

- Uniform cure
- Resists foaming, blisters & pinholes
- Resists wash off
- Yields more dry waterproofing than lower solids products
- No mixing of multiple components
- No extra labor steps
- No pot life limitations
- Perfect option for odor sensitive accounts/facilities
- Meets all VOC regulation limits
- Suitable for use over many substrates/roof types
- Lowers rooftop temperatures resulting in less stress and potential energy savings
- CRRC Listed

## DESCRIPTION

AlphaGuard MT Top Coat is a one-part, moisture triggered, polyurethane liquid applied product.

## BASIC USES

AlphaGuard MT Top Coat can be used in a variety of applications, including restoration or repair of approved existing roofing substrates, AlphaGuard PLUS system roof assemblies, application to structural concrete roof decks, and in IRMA/PRM and vegetative roof system assemblies. AlphaGuard MT Top Coat is used as a surfacing over fully-reinforced AlphaGuard MT/MTS Base Coat..

## PACKAGING

5 gal (18.9 L) pails  
2 gal (7.5 L) pails

## COLOR

White, Beige, Black, Dark Gray, Garnet, Light Gray, Medium Gray, Patina Green, Safety Yellow, Sand  
*\*Custom colors are available upon request. Please review Tremco's color policy for details.*

## GRADE

Brush, Roller, Spray, Squeegee & Backroll

## STORAGE

9 months shelf life in unopened containers when properly stored.

Recommended storage is indoors in a ventilated, dry area removed from heat, open flame, ignition sources and direct sunlight. Storage temperatures should range from 60-70°F (15-21°C) and must not drop below 32°F (0°C) or exceed 110°F (43°C).

On the job site, materials should remain on the pallet until use and be stored in a shaded, ventilated area. Materials should be covered with a light-colored, reflective tarp for protection against the elements. Allow for adequate air flow inside the pallets.

Shelf life could be affected if the product is not stored properly.

## APPLICATION

**Surface Preparation:** AlphaGuard MT/MTS Base Coat or Top Coat surface must be cured, clean, dry, in sound condition, and free of dirt, debris, and contaminants prior to application.

**Mixing:** Mechanical mixing is typically not necessary. Ensure product is consistent in appearance and viscosity. Do not thin.

**Priming:** AlphaGuard MT/MTS Base and Top Coats should be top-coated within 72 hours of application. If cured base or top coat is exposed for longer than 72 hours, an application of Geogard Primer will be required to promote adhesion between coats. Review the recommended primer product data sheet for specific product and application information.

# AlphaGuard™ MT Top Coat

## APPLICATION CONTINUED

**Installation:** Install product using one of the approved application methods evenly at the recommended coverage rate. Use wet mil gauges to monitor coverage rates throughout application. Never fully invert empty pails in an attempt to drain material as this may result in improperly cured material during application.

**Non-Skid Application:** Install an additional layer of top coat in white or chosen color at 1-1½ gal / 100 sq. ft. (16-24 wet mils) (0.4-0.6 L/m<sup>2</sup>) and immediately broadcast and backroll an approved non-skid media. Color striping can be installed in 3-4" wide areas along the perimeter of the walkway area at a coverage rate of 1-1½ gal / 100 sq. ft. (16-24 wet mils) (0.4-0.6 L/m<sup>2</sup>) to provide identification of the areas on the roof.

### Approved Non-Skid Media:

- Silica Sand (20-40 mesh) - Coverage: 20-30 lbs. / 100 sq. ft.
- No. 11 Roofing Granule - Coverage: 10-15 lbs. / 100 sq. ft.

## ACCEPTABLE ROOF SURFACES

BUR Gravel	BUR Smooth	Concrete	MB Granule	MB Smooth	Metal/ Metal Fluoropolymer	Single Ply	SPUF	Walls
	●	●	●	●		●		

## COVERAGE RATES

**Top Coat:** 2 gals / 100 sq. ft. (0.8 L/m<sup>2</sup>) (32 wet mils)

**Tremco Plain and Simple/Extended Warranty:** 3 gals / 100 sq. ft. (1.2 L/m<sup>2</sup>) (48 wet mils)

**Non-Skid Coat:** 1-1½ gals / 100 sq. ft. (0.4 - 0.6 L/m<sup>2</sup>) (16-24 wet mils)

**Note:** Coverage rates are listed at minimum recommended rates. The application surface can affect the necessary coverage rate. Color top coats may require higher coverage rates or additional coats to provide adequate hiding and consistent appearance.

## TEMPERATURE/WEATHER RECOMMENDATIONS

**Min Ambient:** 50°F (10°C)

**Max Ambient:** 110°F (43.3°C)

- Minimum temperatures must be rising following application
- Do not apply when dew point is within 5°F (2.7°C) of ambient temperatures
- Do not apply when precipitation, fog or dew is imminent prior to cure of the product

## CURE TIMES

### Skin Time:

1 hour @ 85°F (29°C) / 70% RH  
2-3 hours @ 68°F (20°C) / 70% RH  
4-6 hours @ 50°F (10°C) / 70% RH

### Over-Coat Time:

2-4 hours @ 85°F (29°C) / 70% RH  
6-10 hours @ 68°F (20°C) / 70% RH  
16-18 hours @ 50°F (10°C) / 70% RH

*Note: Cure times can be effected by a number of weather and jobsite conditions*

## SPRAY EQUIPMENT RECOMMENDATIONS

### GENERAL GUIDELINES

**Component:** Single-Component

**Pressure:** 4,000 - 5,500 psi minimum

**Tip Size:** .039 - .049

**Filters:** Remove

**Hose Type:** High Pressure

**WHIP:** 1/4" High Pressure

**Product Temp:** 100 - 110°F (37 - 43°C)

- Must use heavy duty or industrial grade spray tips
- Properly clean and maintain spray equipment before, during, and after use
- Equipment should be properly grounded during use

## CLEAN UP

Before the product cures, clean surfaces and equipment with isopropyl alcohol, mineral spirits, or xylene. Spray equipment can be flushed/cleaned using MEK or xylene.



## LIMITATIONS

# AlphaGuard™ MT Top Coat

Not recommended for use over the following:

**Roof Decks:** Cementitious wood fiber, metal, poured-in-place gypsum, structural lightweight or lightweight insulating concrete, and wood decks (continued on page 3) (includes plywood, tongue and groove, etc.).

**Products/Systems:** Asphalt-based or coal tar gravel surfaced BUR systems, clay tile, corrugated or standing seam metal roof systems, expanded or extruded polystyrene insulation, fluoropolymer finished metal, shingles, silicone-based products, and tar-based products.

- Not for use under continuous immersion.

## PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE
Accelerated Weathering	ASTM G154	Pass (5,000 hrs)
Dynamic Puncture Resistance	ASTM D5635	35 J
Elongation	ASTM D412	351%
Flexibility	ASTM D522	Pass
Fungi Resistance	ASTM D5590	Pass
Indentation Hardness	ASTM D2240	85 Shore A
Permeance	ASTM E96	0.020 perm-in
Static Puncture Resistance	ASTM D5602	75 lbf
Tear Strength	ASTM D624	159 lbf/in
Tensile Strength	ASTM D412	1,435 psi
Water Vapor Transmission	ASTM E96	4.9 g/m <sup>2</sup> per day
Volume Solids	ASTM D2697	87-89%
Weight Solids	ASTM D1644	88-90%
VOC		< 50 g/L

Data is for AlphaGuard MT System

## CODES & APPROVALS

Florida Building Code



Rapid Ratings	Rapid Ratings*		
	Initial	Weathered	Weathered
Solar Reflectance	0.83	0.82	Pending
Thermal Emittance	0.9	0.9	Pending
Rated Product ID	0612-0025		
Licensed Manufacturer ID	0612		
Classification	Production Line		

\*CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values. These values will be replaced by the measured three-year aged values upon completion of the weathering process. Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effects of solar reflectance and thermal emittance on building performance may vary. Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

## MAINTENANCE

Your local Tremco Roofing sales representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

## PRECAUTIONS

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

## TECHNICAL SUPPORT

Your local Tremco Roofing sales representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.



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